

# BolySolar



A SOLAR TECHNOLOGY  
REVOLUTION FOR THE SAKE OF HUMANITY

**Boly Inc.**

**BOLY**



# LOOKING FOR PARTNERS

- High density output PV panel manufacturers
- Power station builders
- Residential/office installers
- Solar energy financiers
- Distributors/resellers
- Service providers
- Anyone who is interested in contributing to the energy revolution

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# Boly Inc.

Boly Inc. a hi-tech company based in Silicon Valley with offices in Hong Kong, and Shenzhen, China, specializing in the imaging and renewable energy industries.

In 2016, Boly Inc. expanded and applied its technology to the renewable energy industry. The lens technology that they have created for their cameras has enabled the company to super-charge state of the art Fresnel lens technology to increase energy production from existing solar solutions. Boly is prototyping and testing various solar energy products that will help provide electricity, cut energy costs and carbon footprints for corporations and residential areas worldwide.





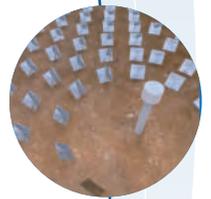
# BolySolar

BolySolar Concentrator, the company's first solar technology device was announced to the public at Intersolar Europe, in Munich in June 2016. This solution is inspired and derived from the company's field-proven long-range sensing and lighting technologies.

While concentration technology was used since the invention of photovoltaic panels, it has not brought significant advantages to the solar energy industry. The BolySolar Concentrators not only have low light absorption rates, but also feature low cost production, compact design, and durable construction. They mount on any surface and do not produce light pollution. BolySolar Concentrators reduce the amount of PV panels in an installation.

BolySolar technology can instantly make solar power the most affordable energy source today. If the best PV panels (40+% efficiency) and heat harvest systems are jointly used, the company expects a total solar energy utilization rate of up to 80%.

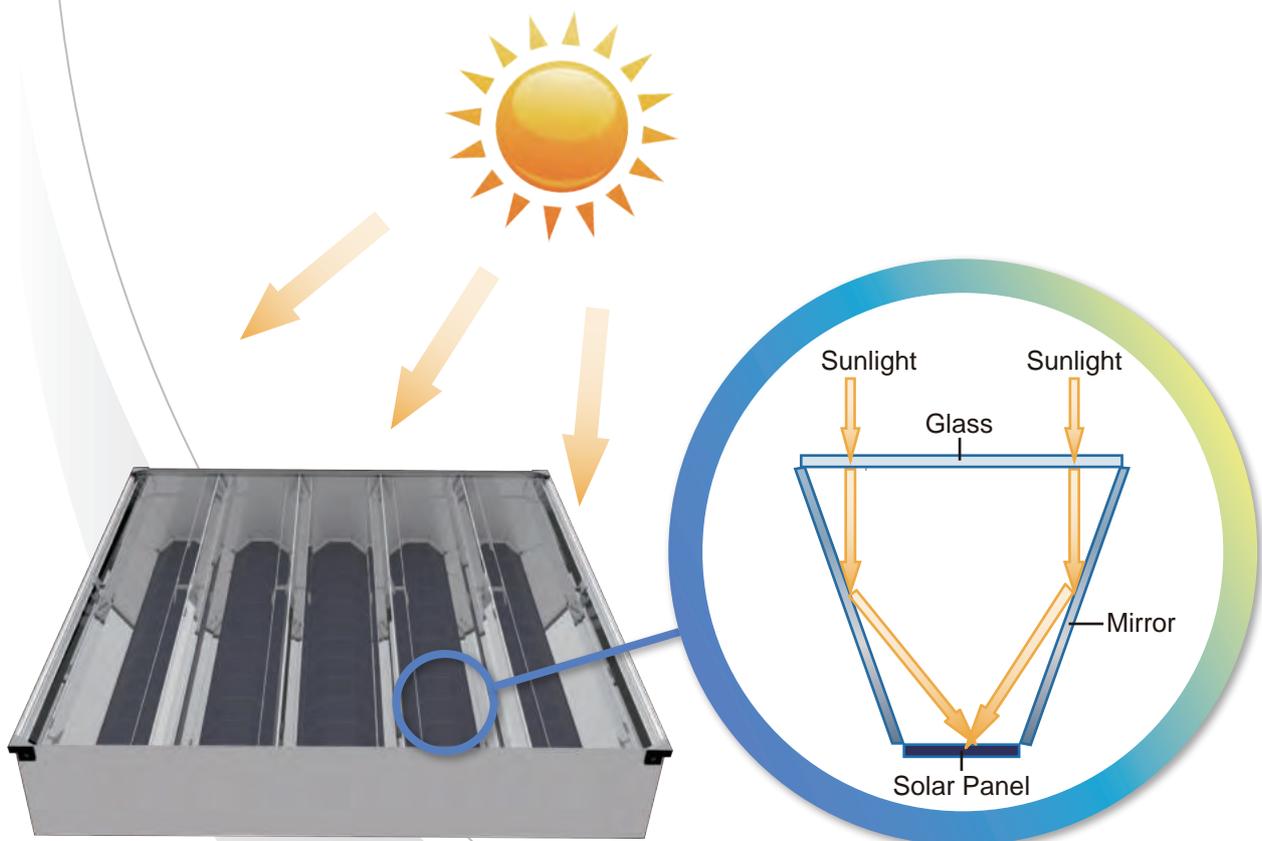
The company will create other products in racking, installation, and inverter technologies. By 2020, our solar energy solution will cost a small fraction of today's systems while tripling the power output efficiency. By adding BolySolar technology to existing solar installations - the power generation of existing systems will double to triple in efficiency.



# BolySolar Tripler

Tripler is a concentrated PV module, less than 40% cost to ordinary PV modules. Safe design for integrated power plant, floating station and residential usage.

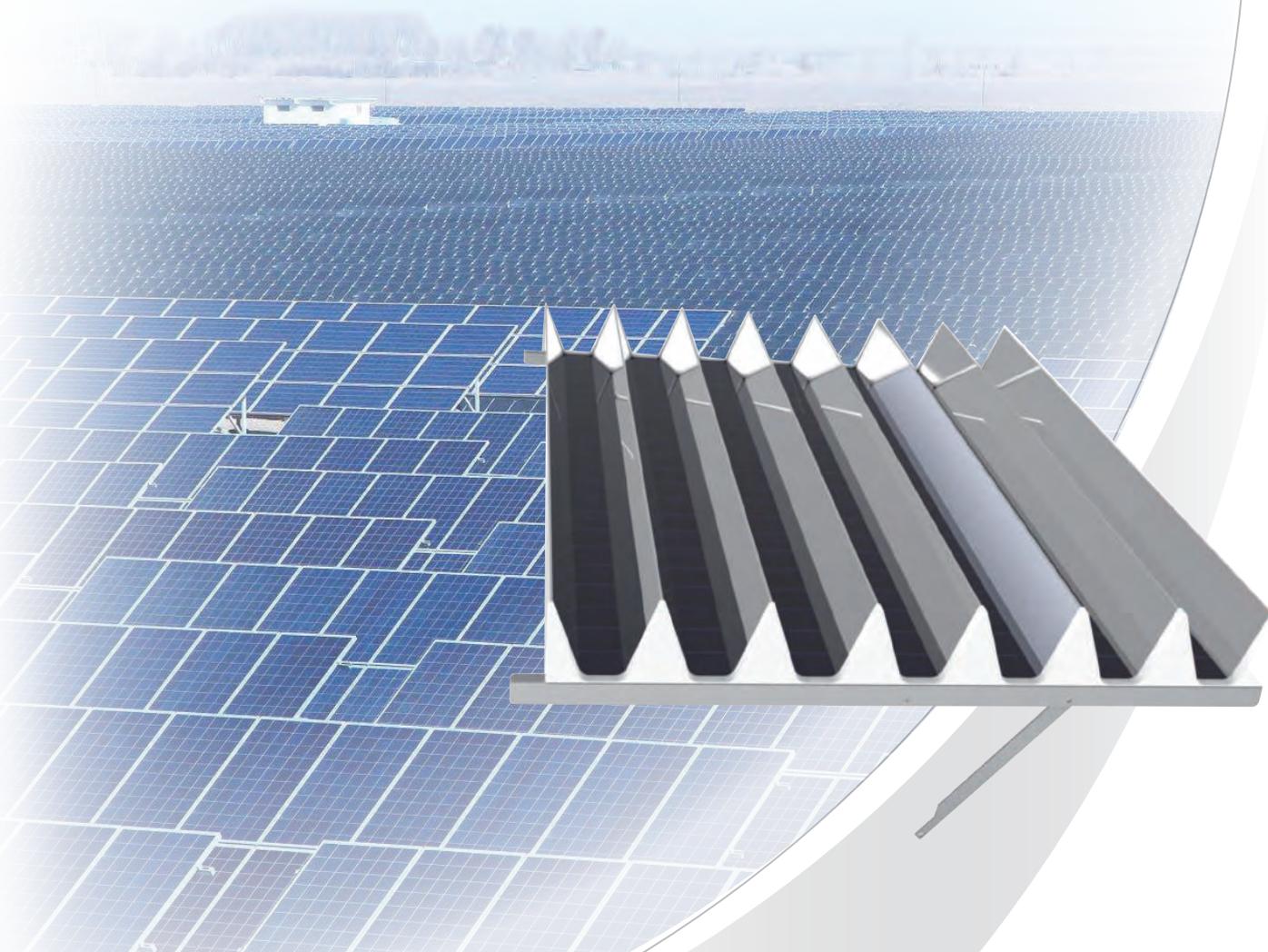
- ⦿ 40% cost less than ordinary PV module
- ⦿ 3X peak density increase over existing fixed PV installations
- ⦿ 3X annual electricity output boost from existing fixed PV installations
- ⦿ Safe and closed design for integrated power plant, marine usage and distributed home usage
- ⦿ Applied widely: Power station, Roof, Marine power plant, Ground usage, Mountains and Street lights



# BolySolar Doubler

The BolySolar Enhancer is an aftermarket solution that increases power production of existing installations

- ⦿ Helps to take back cost for power station quickly. The Enhancer only cost 15% of the whole plant, to expect a 40% increase of electricity output. It's an aftermarket solution that increases power output of existing installations
- ⦿ 2.0X peak density increase over existing fixed PV installations
- ⦿ 2.0X annual electricity output boost from existing fixed PV installations
- ⦿ Attaches to existing fixed PV installations, no need to re-arrange modules



# BolySolar Mobility

Silent, fume-free, portable, plug and play power generator

- ⦿ Can be used in emergency or off grid situations
- ⦿ Gas-free source to keep lights, phones and laptops powered wherever you are
- ⦿ Charged through a compatible, easy to install solar panel
- ⦿ Unit can also be charged by connecting to regular wall outlet or car adapter





## Specifications

Bolsolar Mobility Specification		
Part name	performance	Spec
LED with cable	Power	3W
	Voltage	12V
	Luminous efficiency	120-165Lm/W
	Light fades rate	1000H ≪1%
	Cable length	5M
Mobile LED Light	Power	7W
	Voltage	12V
	Luminous efficiency	120-165Lm/W
	Light fades rate	1000H ≪1%
	Built-in battery capacity	4500mAh
Battery	Battery type	18650,2200mAh
	Total capacity	188WH
	Voltage	12V
	Number	24pcs
Controller	Main Function	Overcharge protection, Discharging protection, Anti-reverse,etc
	Power loss	≤5%
	Interface	USB (12V/1.5A) , USB (5V/2A) , DC (3pcs/12V) , DC port for car charger
Solar Panel Assembly	Output voltage	17.5V
	Total capacity	70W
	Panel power	35W
	Size	834mm*600mm
	Cable length	2M, Line loss ≤3%

# BolySolar Light

- LED lighting solution, a cost-saving and energy-efficient solution for replacing existing HPS (high pressure sodium) street lights
- Engineered for long-term and reliable performance with little or no maintenance.
- Designed for a wide range of physical and operating environments and are perfect for rural, suburban and metropolitan areas.

◀ BolySolar Street light

## 20W

Part name	Performance	Spec
LED	Power	20W
	Voltage	12V
	Luminous efficiency	120-165Lm/W
	Light fades rate	2400H ≤1%
	Light housing	Plastic, corrosion protection , heat radiation
	Fresnel Lens	Sensor range:11M*11M
Battery	Battery type	18650 , 2600mAh
	Total capacity	280WH
	Voltage	12V
	Number	27pcs (200mm*60mm*60mm)
	Assembly method	3 series 9 parallel
Controller	Main function	Overcharge protection, Discharging protection, Anti-reverse, time control, light control etc.
	Assembly method	Built the Led Housing
	Power loss	≤5%
Solar Panel Assembly	Output voltage	18V
	Total capacity	45W
	Panel power	15W (Size:554mm*554mm)
	Lens size	554mm*554mm
	Power loss	<10%
	Follow Sun system	Uniaxial system
Cable	Junction box , Line loss <3%	
Mounting brackets	Main function	Simple easy to adjust
Pole	No	

## Applications

- Street lighting
- Pathway lighting
- Parking lot lighting
- Security lighting
- Signage lighting
- Backyard lighting

## 40W

Part name	Performance	Spec
LED	Power	40W
	Voltage	12V
	Luminous efficiency	120-165Lm/W
	Light fades rate	4800H ≤1%
	Light housing	Plastic, corrosion protection , heat radiation
	Fresnel Lens	Sensor range:11M*11M
Battery	Battery type	18650, 2600mAh
	Total capacity	560WH
	Voltage	12V
	Number	54pcs (200mm*60mm*60mm)
	Assembly method	3 series 18 parallel
Controller	Main function	Overcharge protection, Discharging protection, Anti-reverse, time control, light control etc.
	Assembly method	Built the Led Housing
	Power loss	≤5%
Solar Panel Assembly	Output voltage	18V
	Total capacity	90W
	Panel power	15W (Size:296mm*296mm)
	Lens size	825mm*825mm
	Power loss	<10%
	Follow Sun system	Uniaxial system
Mounting brackets	Cable	Junction box , Line loss <3%
	Main function	Simple easy to adjust
Pole	No	

BolySolar ►  
Park light



# BolySolar Roof

Utilizes a reflective Fresnel lens technology to concentrate light into the focal point, which is mounted in the attic of a roof.

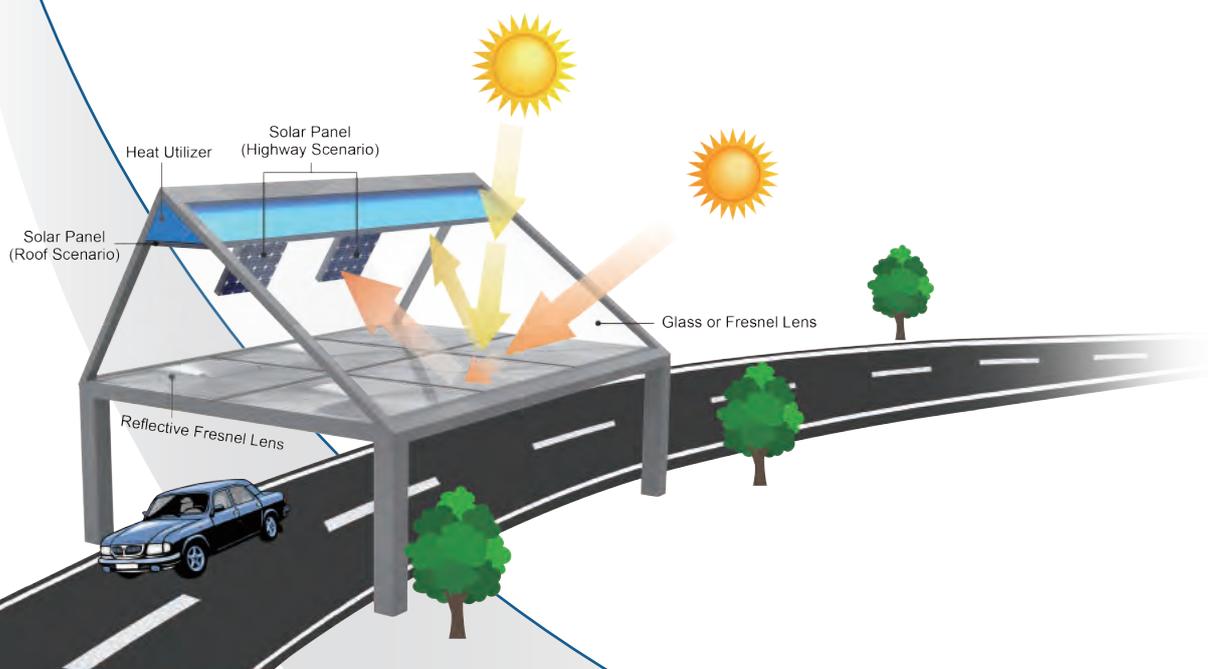
Two application purposes: Buildings & Highways

## Building design advantages:

- Costs less than an average rooftop solar system and a regular roof
- No sun tracking system is required and can be adapted to roofs of any orientation
- Generates electricity at 40% or more efficiency and provides a heat source for ecofriendly houses
- The BolySolar Roof can also serve as energy storage, allowing total energy freedom for many of the residential and commercial buildings

## Highway application:

- BolySolar Roof's Highway solution known as Solar Shade is more economical than a solar highway, more durable, and 2-4x more energy efficient
- Highways going East-West bound, or when there is inclement weather, a solar shade makes the highway much safer- eliminating- glare, snow, rain, and fog are the some of the many causes of accidents
- Cost of a Solar Shade will be paid off in two to three years from electricity generation and reduced highway service needs
- Option for built-in Energy Storage and Thermal Power Generation



# ● BolySolar Patio

- This solution Utilizes BolySolar Concentrator's lens system, which utilizes reflective Fresnel lens to concentrate light into the focal area
- Savings of 50% or more over conventional roof solar system installations
- System uses solar heat for hot water, house warming, or more electricity generation
- System is safer and better-looking than rooftop solar systems
- Suitable for high rise buildings

